

What is claimed is:

1. A method for reducing the defect density of glass produced via a float glass process comprising
  - 5 a. melting a glass composition comprising:
    - from 65-75 wt.% of  $\text{SiO}_2$ ;
    - from 10-20 wt.% of  $\text{Na}_2\text{O}$ ;
    - from 5-15 wt.% of  $\text{CaO}$ ;
    - from 0-5 wt.% of  $\text{MgO}$ ;
    - 10 from 0-5 wt.% of  $\text{Al}_2\text{O}_3$ ;
    - from 0-5 wt.% of  $\text{K}_2\text{O}$ ;
    - from 0-2 wt.%  $\text{Fe}_2\text{O}_3$ ; and
    - from 0-2 wt. %  $\text{FeO}$ ,wherein the glass composition has a total field strength index of greater than or equal  
15 to 1.23.
2. A method according to claim 1 wherein the glass composition further comprises at least one of the following: from 0.0 to 2.0 weight percent  $\text{TiO}_2$  based on the weight of the composition; from 0.0 to 3.0 weight percent of erbium oxide based  
20 on the total weight of the composition; and/or from 0.0 to 2.0 weight percent of neodymium based on the total weight of the composition.
3. A method according to claim 1 wherein melting the glass composition yields a glass melt having a water content of at least 0.035 weight percent based on the total  
25 weight percent of the composition
4. A method according to claim 1 wherein the glass produced has a defect density of less than 10 total defects per 100 square feet.
- 30 5. A float glass composition comprising:
  - from 65-75 wt.% of  $\text{SiO}_2$ ;
  - from 10-20 wt.% of  $\text{Na}_2\text{O}$ ;
  - from 5-15 wt.% of  $\text{CaO}$ ;
  - from 0-5 wt.% of  $\text{MgO}$ ;

from 0-5 wt.% of  $\text{Al}_2\text{O}_3$ ;  
from 0-5 wt.% of  $\text{K}_2\text{O}$ ;  
from 0-2 wt.%  $\text{Fe}_2\text{O}_3$ ; and  
from 0-2 wt. %  $\text{FeO}$ ,

5 wherein the glass composition has a total field strength index of greater than or equal to 1.23.

6. A float glass composition according to claim 5 further comprising at least one of the following: from 0.0 to 2.0 weight percent  $\text{TiO}_2$  based on the weight of the  
10 composition; from 0.0 to 3.0 weight percent of erbium oxide based on the total weight of the composition; and/or from 0.0 to 2.0 weight percent of neodymium based on the total weight of the composition.

7. A float glass article comprising a glass composition comprising:

15 from 65-75 wt.% of  $\text{SiO}_2$ ;  
from 10-20 wt.% of  $\text{Na}_2\text{O}$ ;  
from 5-15 wt.% of  $\text{CaO}$ ;  
from 0-5 wt.% of  $\text{MgO}$ ;  
from 0-5 wt.% of  $\text{Al}_2\text{O}_3$ ;  
20 from 0-5 wt.% of  $\text{K}_2\text{O}$ ;  
from 0-2 wt.%  $\text{Fe}_2\text{O}_3$ ; and  
from 0-2 %  $\text{FeO}$ ,

wherein the glass composition has a total field strength index of greater than or equal to 1.23.

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8. A float glass article according to claim 7 wherein the glass composition further comprises at least one of the following: from 0.0 to 2.0 weight percent  $\text{TiO}_2$  based on the weight of the composition; from 0.0 to 3.0 weight percent of erbium oxide based on the total weight of the composition; and/or from 0.0 to 2.0 weight percent of  
30 neodymium based on the total weight of the composition

9. A float glass article according to claim 8 wherein the article comprises at least one piece of glass in a laminated product, the article contains greater than 1 total defect per 100 square feet.

10. A float glass article according to claim 8 wherein the laminated product is a windshield.